

**VOLUNTEER PARK**  
Recommended Trees for Future Planting

Trees for Future Planting in Volunteer Park			Tree				Site Requirements					Special Features							
Botanical Name	Common Name	Limitations & Comments	Conifer	Tall Canopy	Mid Canopy	Understory	Sun	Partial Shade	Full Shade	Irrigated	Non-irrigated	Native	Evergreen	Winter	Spring	Summer	Fall	Olmsted - 1909 Vol Pk	Olmsted - Other park
<i>Abies cephalonica</i>	Greek Fir	<i>Tsuga canadensis</i> alternative (fewer pest & disease problems)																	
<i>Abies grandis</i>	Grand Fir	<i>Pseudotsuga menziesii</i> alternative (native, less wind-throw)																	
<i>Abies koreana</i>	Korean Fir	<i>Tsuga canadensis</i> alternative - smaller (fewer pest & disease problems)																	
<i>Abies pinsapo</i>	Spanish Fir	<i>Tsuga canadensis</i> alternative - smaller (fewer pest & disease problems)																	
<i>Acer circinatum</i>	Vine maple	Avoid suspected verticillium disease sites					x	x	x	x	x					x	x		
<i>Acer griseum</i>	Paperbark Maple	<i>Acer saccharinum</i> alternative (more durable)																	
<i>Acer macrophyllum</i>	Bigleaf maple	Limited appropriate sites; breaks up when large	x				x			x	x					x	x		
<i>Acer palmatum</i>	Japanese maple	Avoid suspected verticillium disease sites			x	x	x	x	x						x	x	x	x	
<i>Acer rubrum</i>	Red maple	Limited use; extremely abundant locally		x	x					x					x	x	x	x	
<i>Acer saccharum</i>	Sugar Maple	<i>Acer macrophyllum</i> alternative (more durable, smaller, underused)																	
<i>Acer truncatum x A. platanoides 'Keithsform'</i>	Norwegian Sunset Maple	<i>Acer macrophyllum</i> alternative (more durable)																	
<i>Acer x freemanii 'Marmo'</i>	Marmo Maple	<i>Acer saccharinum</i> alternative (more durable)																	
<i>Aesculus carnea 'Briotii'</i>	Red horsechestnut	Dense shade		x	x	x				x					x	x	x	x	
<i>Aesculus glabra</i>	Ohio Buckeye	Availability																x	
<i>Aesculus hippocastanum</i>	Horsechestnut	Invasive; heritage replacement only																x	
<i>Amelanchier alnifolia</i>	Pacific Serviceberry	Native, shrubby habit																	
<i>Amelanchier 'Autumn Brilliance'</i>	Autumn Brilliance Serviceberry	Delicate foliage and flowers, treelike, red fall color																	
<i>Aralia spinosa</i>	Hercules Club	Can root sucker; use sparingly; spiny stems - barrier planting																x	
<i>Arbutus unedo</i>	Strawberry Tree	<i>Prunus lusitanica</i> alternative - non-invasive broadleaf evergreen																	
<i>Arbutus x andrachnoides</i>	Hybrid Arbutus	<i>Prunus lusitanica</i> alternative - non-invasive broadleaf evergreen																	
<i>Azara microphylla</i>	Azara	Small, fine-textured evergreen tree, fragrant inconspicuous flowers.																	
<i>Betula alleghaniensis</i> [lutea]	Yellow Birch	Loses showy red-brown bark with age																x	
<i>Betula nigra</i>	River Birch	Cultivar 'Heritage' preferable																x	
<i>Betula platyphylla japonica</i>	Japanese White Birch	Brilliant bark retained as tree ages																	
<i>Betula utilis jacquemontii</i>	Himalayan White Birch	Brilliant white bark, coarser foliage than most, fast growing																	
<i>Calocedrus decurrens</i>	Incense Cedar	<i>Chamaecyparis lawsoniana</i> alternative (resists Phytophthora root rot)																	
<i>Camellia reticulata</i>	Tree Camellia	<i>Prunus lusitanica</i> alternative - non-invasive broadleaf evergreen																	
<i>Carpinus betulus</i>	European Hornbeam	Cultivar 'Fastigiata' most available																x	
<i>Castanea mollissima</i>	Chinese Chestnut	<i>Castanea dentatum</i> alternative (resists blight)																	
<i>Catalpa ovata</i>	Chinese Catalpa	Limit use to replacement - <i>C. speciosa</i> better																x	
<i>Catalpa speciosa</i>	Northern (Hardy) catalpa	Wood sometimes brittle; avoid high-use sites																x	
<i>Cedrus atlantica</i>	Atlas Cedar	Limited replanting; subject to breakout	x	x				x			x							x	
<i>Cedrus deodara</i>	Deodar cedar	Not for extensive use; breakage in age.	x	x			x			x			x		x			x	
<i>Cercidiphyllum japonicum</i>	Katsura	Needs moisture																x	
<i>Chamaecyparis lawsoniana</i>	Lawson Cypress	Very limited use; disease has killed many in park																x	
<i>Chamaecyparis nootkatensis</i>	Alaska-cedar	<i>Chamaecyparis lawsoniana</i> alternative (resists Phytophthora root rot)																	
<i>Chamaecyparis obtusa</i>	Hinoki Cypress	<i>Chamaecyparis lawsoniana</i> alternative (resists Phytophthora root rot)																	
<i>Chamaecyparis pisifera</i>	Sawara Cypress	<i>Chamaecyparis lawsoniana</i> alternative (resists Phytophthora root rot)																	
<i>Chitalpa x taskentensis</i>	Chitalpa	Bi-generic cross, specimen use for sunny dry location																	
<i>Cladrastis lutea</i>	Yellowwood	Limit use to hot, sunny sites																x	
<i>Cornus 'Eddie's White Wonder'</i>	Eddie's White Wonder Dogwood	<i>Cornus nuttallii</i> hybrid (more anthracnose resistant than species)																	

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<i>Cornus kousa</i>	Kousa (Korean) Dogwood	<i>Cornus nuttali</i> and <i>C. florida</i> alternative (disease resistant)																	
<i>Cornus mas</i>	Cornelian Cherry	<i>Acer palmatum</i> alternative, Verticillium resistant																	
<i>Cornus x 'Rutcan'</i> Stellar Pink	Stellar Pink Dogwood	<i>Cornus florida rubra</i> alternative (resists anthracnose)																	
<i>Cotinus coggygria</i> , <i>C. ovata</i>	Green Smoke Tree	<i>Syringa reticulata</i> alternative																	
<i>Crataegus crus-galli</i>	Cockspur Hawthorn	Thornless cultivar 'Inermis' only																x	
<i>Crataegus phaenopyrum</i>	Washington Hawthorn	<i>Crataegus oxyacantha</i> alternative (less invasive, less leaf disease)																	
<i>Crataegus viridis</i> 'Winter King'	Winter King Hawthorn	<i>Crataegus oxyacantha</i> alternative (less invasive, less leaf disease)																	
<i>Crataegus x lavallei</i>	Lavalle Hawthorn	<i>Crataegus oxyacantha</i> alternative (less invasive, less leaf disease)																	
<i>Cryptomeria japonica</i>	Japanese Cryptomeria	Limited use - breakage & holds dead foliage																x	
<i>Cryptomeria japonica</i> 'Elegans'	Cryptomeria (cultivar)	Limited use - breakage & holds dead foliage																x	
<i>Cupressus macrocarpa</i>	Monterey Cypress	<i>Thuja occidentalis</i> alternative (better adapted for Pacific NW)																	
<i>Davidia involucrata</i>	Dove (Handkerchief) Tree	Fertile, moist soil																	
<i>Eucryphia x nymansensis</i>	Eucryphia	Narrow broadleaf evergreen, copious white, fragrant summer flowers																	
<i>Fagus sylvatica</i>	European Beech	Aphid honeydew; do not site near vehicles, benches	x					x			x			x				x	
<i>Fagus sylvatica</i> 'Purpurea'	Purple Beech	OK for limited specimen use																x	
<i>Franklinia alatamaha</i>	Franklin Tree	Rich, humusy soil; rare species for specimen use only																	
<i>Fraxinus americana</i>	White Ash	Seedless cultivars only: 'Junginger', 'Skycole', etc.																x	
<i>Fraxinus excelsior</i>	Common (European) Ash	Borers limit use, seedless green cultivar 'Kimberly Blue'		x	x													x	
<i>Fraxinus ornus</i>	Flowering Ash	<i>Cladrastis lutea</i> alternative (better adapted for Pacific NW)																	
<i>Fraxinus oxycarpa</i> (angustifolia)	Raywood (Claret) Ash																		
<i>Ginkgo biloba</i>	Ginkgo, Maidenhair tree	Use male cultivar only: 'Autumn Gold', 'Shangri-la'		x			x				x				x		x	x	
<i>Ginkgo biloba</i> 'Princeton Sentry'	Columnar Ginkgo	Much shorter than Lombardy poplar but durable																	
<i>Halesia monticola</i>	Mountain Silverbells	<i>Cladrastis lutea</i> alternative (better adapted for Pacific NW)																	
<i>Halesia carolina</i>	Carolina Silverbells	Pink flowering form available, smaller than <i>H. monticola</i>																	
<i>Hamamelis x hybrida</i>	Hybrid Witch Hazel	<i>Acer palmatum</i> alternative, Verticillium resistant																	
<i>Hydrangea paniculata</i> 'Grandiflora'	PeeGee Hydrangea	<i>Syringa reticulata</i> alternative																	
<i>Ilex pedunculosa</i>	Longstalk Holly	<i>Ilex aquifolium</i> alternative (less invasive, more open tree form)																	
<i>Ilex x altaclarensis</i>	Altaciera Holly	<i>Ilex aquifolium</i> alternative (less invasive, more open tree form)																	
<i>Juniperus chinensis</i> 'Kaizuka'	Hollywood Juniper	<i>Thuja occidentalis</i> alternative (better adapted for Pacific NW)																	
<i>Juniperus scopulorum</i> 'Cupressifolia Erecta'	Green Rocky Mountain Juniper	<i>Thuja occidentalis</i> alternative (better adapted for Pacific NW)																	
<i>Koelreuteria paniculata</i>	Golden Rain Tree																	x	
<i>Laburnum x watereri</i>	Waterer Laburnum	<i>Laburnum anagyroides</i> alternative (non-invasive)																	
<i>Lagerstroemia indica</i>	Crape Myrtle	Hardy, tree-form selections & hot site only																x	
<i>Liquidambar styraciflua</i>	Sweet Gum	Aggressive roots need room	x				x			x	x				x		x	x	
<i>Liriodendron tulipifera</i>	Tulip poplar	Aphid honeydew; do not site near vehicles, benches																x	
<i>Liriodendron tulipifera</i> 'Fastigiatum'	Columnar tulip poplar	Aphids?																	
<i>Lithocarpus densiflorus</i>	Tanoak	Evergreen, eventually large. S. Oregon & CA native																	
<i>Magnolia acuminata</i>	Cucumbertree magnolia	Flowers not showy; very large at maturity																x	
<i>Magnolia grandiflora</i>	Southern Magnolia	Hardy, strong cultivars only: 'Edith Bogue', 'Victoria'																x	
<i>Magnolia kobus</i>	Kobus Magnolia	<i>Acer palmatum</i> alternative, Verticillium resistant																	
<i>Magnolia macrophylla</i>	Bigleaf magnolia	Huge leaves - avoid overuse, drain inlets																x	

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<i>Magnolia soulangeana</i>	Saucer magnolia	Tends to shrublike, low branching form																x	
<i>Magnolia tripetala</i>	Umbrella magnolia	Huge leaves - limited accent use																x	
<i>Malus 'Adirondack'</i>	Adirondack Crabapple	Malus coronaria & M. toringo alternative (less disease-prone)																	
<i>Malus baccata</i>	Siberian Crabapple	Species scab-prone; cultivar 'Jackii' excellent																x	
<i>Malus 'Donald Wyman'</i>	Donald Wyman Crabapple	Malus coronaria & M. toringo alternative (less disease-prone)																	
<i>Malus 'Firebird'</i>	Firebird Crabapple	Malus coronaria & M. toringo alternative (less disease-prone)																	
<i>Malus floribunda</i>	Floribunda Crabapple	Reasonable scab resistance, not perfect																x	
<i>Malus 'Golden Raindrops'</i>	Golden Raindrops Crabapple	Malus coronaria & M. toringo alternative (less disease-prone)																	
<i>Malus ioensis</i>	Bechtel crabapple	Cultivar 'Klehm's Improved Bechtel' less scab-prone																x	
<i>Malus 'Professor Sprenger'</i>	Professor Sprenger Crabapple	Malus coronaria & M. toringo alternative (less disease-prone)																	
<i>Malus sargentii</i>	Sargent Crabapple	Malus coronaria & M. toringo alternative (less disease-prone)																	
<i>Malus 'Zumi Calocarpa'</i>	Zumi Cacocarpa Crabapple	Malus coronaria & M. toringo alternative (less disease-prone)																	
<i>Myrica californica</i>	Pacific Wax Myrtle	Prunus laurocerasus alternative - native broadleaf evergreen																	
<i>Nyssa sylvatica</i>	Sourgum, Tupelo																	x	
<i>Oxydendrum arboreum</i>	Sourwood, Sorrel tree	Slow; for irrigated, mulched beds only																x	
<i>Parrotia persica</i>	Persian Ironwood	Acer palmatum alternative, Verticillium resistant																	
<i>Paulownia tomentosa</i>	Empress tree	Large leaves require fall pickup on lawns																x	
<i>Phellodendron amurensis</i>	Amur Cork Tree	Needs room, seedless cultivar preferred: 'Macho'																x	
<i>Photinia serrulata</i>	Chinese Photinia	Prunus laurocerasus alternative - less invasive broadleaf evergreen																	
<i>Picea omorika</i>	Serbian Spruce	Pseudotsuga menziesii alternative (less wind-throw)																	
<i>Pinus aristata</i>	Bristlecone Pine	Pinus mugo alternative - compact pines, less variable characteristics																	
<i>Pinus attenuata</i>	Knobcone Pine	Pinus monticola alternative																	
<i>Pinus contorta contorta</i>	Shore Pine	Pinus mugo alternative - compact pines, less variable characteristics																	
<i>Pinus densiflora</i>	Japanese red pine	Slow, irregular; limited specimen use	x					x		x	x	x						x	
<i>Pinus flexilis 'Vandewolf's Pyramid'</i>	Vanderwolf's Pyramid White Pine	Pinus mugo alternative - compact pines, less variable characteristics																	
<i>Pinus heldreichii leucodermis</i>	Bosnian Pine	Pinus mugo alternative - compact pines, less variable characteristics																	
<i>Pinus jeffreyi</i>	Jeffrey Pine	Pinus monticola alternative																	
<i>Pinus monticola</i>	Western White Pine	Disease & insects can kill; limited use																x	
<i>Pinus mugo</i>	Mugo Pine	Avoid know dwarf cultivars.																x	
<i>Pinus ponderosa</i>	Ponderosa Pine	Pinus monticola alternative																	
<i>Pinus sylvestris</i>	Scot's Pine	Pinus monticola alternative																	
<i>Pinus thunbergiana</i>	Japanese Black Pine	Pinus monticola alternative																	
<i>Platanus orientalis</i>	Oriental plane tree	Some disease problems; needs room																x	
<i>Populus nigra 'Italica'</i>	Lombardy poplar	Replacement only; Ginkgo, Tulip poplar, Aspen cvs. better																x	
<i>Populus tremuloides 'Erecta'</i>	Swedish Columnar Aspen	Limit to replacement for Lombardy poplar; much shorter.																	
<i>Pseudotsuga menziesii</i>	Douglas Fir	Large trees subject to wind throw & branch loss; limit use																x	
<i>Pyrus calleryana</i> cultivars	Flowering Pear	Tough, handsome flowering tree; avoid cv. 'Bradford' - weak structure																	
<i>Quercus alba</i>	White Oak																	x	
<i>Quercus bicolor</i>	Swamp White Oak	Fall color unremarkable																x	
<i>Quercus cerris</i>	Turkey (Turkish) Oak	Availability, fall color unremarkable																x	
<i>Quercus chrysolepis</i>	Canyon Live Oak	Drought tolerant evergreen; also <i>Q. suber</i> , <i>virginiana</i> , <i>ilex</i>																	

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<i>Quercus coccinea</i>	Scarlet Oak																	x	
<i>Quercus garryana</i>	Garry (Oregon White) Oak	Native, strong character tree, well-drained site																	
<i>Quercus palustris</i>	Pin oak	Low-sweeping branches, moist site, willow-like leaves	x		x											x	x		
<i>Quercus phellos</i>	Willow Oak	Site to accommodate low-sweeping branches																	
<i>Quercus robur</i>	English Oak	Fall color unremarkable, but mighty stature																x	
<i>Quercus robur 'Fastigiata'</i>	Fastigate English oak	Hybrid 'Crimschmidt' has better (red) fall color																x	
<i>Quercus rubra</i>	Red oak		x		x						x	x				x	x		
<i>Rhamnus purshiana</i>	Cascara	Native understory																	
<i>Robinia ambigua 'Purple Robe'</i>	Purple Robe Locust	Robinia pseudoacacia 'Decaisneana' alternative																	
<i>Sassafras albidum</i>	Sassafras	Fragrant, bold foliage; difficult to transplant																	
<i>Sequoia sempervirens</i>	California Redwood	Sparing use, grows huge																	
<i>Sequoiadendron giganteum</i>	Giant Sequoia	Sparing use for specimens																	
<i>Sorbus alnifolia</i>	Korean Mountain Ash	<i>Sorbus aucuparia</i> alternative (less invasive)																	
<i>Sorbus americana</i>	American Mountain Ash	May be short-lived																x	
<i>Sorbus americana 'Dwarfrown'</i>	Red Cascade Mountain Ash	<i>Sorbus americana</i> alternative																	
<i>Sorbus aria</i>	Whitebeam Mountain Ash	<i>Sorbus aucuparia</i> alternative (less invasive)																	
<i>Sorbus x hybrida</i>	Oakleaf Mountain Ash	<i>Sorbus aucuparia</i> alternative (less invasive)																	
<i>Stewartia sinensis</i>	Chinese Stewartia	<i>Acer palmatum</i> alternative, Verticillium resistant																	
<i>Styrax japonica</i>	Japanese Snowdrop Tree	<i>Acer palmatum</i> alternative, Verticillium resistant																	
<i>Sycomorus sinensis</i>	Chinese Fighazel	<i>Prunus lusitanica</i> alternative - non-invasive broadleaf evergreen																	
<i>Syringa reticulata</i>	Japanese Tree Lilac	Needs training for treelike form; privet-like fragrance																x	
<i>Thuja plicata</i>	Western Red Cedar	<i>Chamaecyparis lawsoniana</i> alternative (resists Phytophthora root rot)																	
<i>Tilia americana</i>	Basswood																	x	
<i>Tilia cordata 'Greenspire'</i>	Greenspire Littleleaf Linden	<i>Tilia europaea</i> alternative (better performer in Pacific NW)																	
<i>Tilia europaea</i>	European or Common Linden	Limited heritage use; other Lindens do better.																x	
<i>Tilia platyphyllos</i>	Bigleaf Linden																	x	
<i>Tilia tomentosa</i>	Silver Linden	<i>Tilia americana</i> , <i>T. platyphyllos</i> alternative (better adapted for Pacific NW)																	
<i>Tsuga mertensiana</i>	Mountain Hemlock	<i>Tsuga canadensis</i> alternative - smaller (fewer pest & disease problems)																	
<i>Ulmus americana 'Princeton'</i>	Princeton Elm	<i>Ulmus americana</i> resistant cultivar (highly DED tolerant)																	
<i>Ulmus 'Frontier'</i>	Frontier Elm	<i>Ulmus procera</i> & <i>U. americana</i> alternative - smaller, red fall color (DED tolerant)																	
<i>Ulmus parvifolia 'Emer II'</i>	Allee Elm	<i>Ulmus procera</i> & <i>U. americana</i> alternative (DED tolerant)																	
<i>Ulmus 'Pioneer'</i>	Pioneer Elm	<i>Ulmus procera</i> & <i>U. americana</i> alternative (DED tolerant)																	
<i>Umbellularia californica</i>	Oregon Myrtle, California Bay	Evergreen, dense, aromatic leaves, grows large																	
<i>Zelkova serrata 'Halka'</i>	Halka Zelkova	<i>Ulmus procera</i> & <i>U. americana</i> alternative (DED resistant)																	